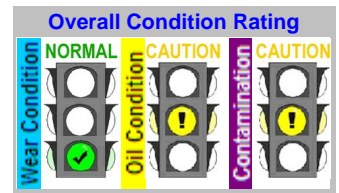


C Code : 16005190
U Name : B005
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M Address : c/o Technoplus Asia Co.,Ltd.
E 634/3 Soi Ramkhamhaeng 39 (Thepleela 1)
R Wangthonglang Bangkok 10310
Site :
Location :
Test code : 89308

Unit ID : Turn Forming Head
Unit Type : Hyd Syst Industrial
Unit Make : DANIELI
Unit Model : (not given)
Oil type / Viscosity : MOBIL DTE 25 ISO 46
Oil System Capacity : 3000 Liters



Notes (Finding, Evaluation, Interpretation, Suggestion and Recommendation)

All wear conditions and wear tests appear in normal working range.
Particle count indicates that oil cleanliness level is in unacceptable range.
Contamination levels are improving.
Oil condition tests indicate that the oil is near the end of its useful service life.
Recommend resample in 500 hours from the time this sample was taken, to monitor.

Wasan C / Andy Sitton

			Current Sample			Previous Sample			Baseline and Alarm Limit				
Condition History			Wear	Oil	Cont.	Wear	Oil	Cont.	Alarm Limit				
Lab ID Bottle ID Date Sampled Oil Hours (Kms) Unit Hours (Kms) Oil Added (Liters) Filters Hours (Kms)	Test Method	Result	N	C	C	C	C	C	Alarm Limit Matrix -Set Name (Equipment type / oil type) Hyd Syst General MB DTE 25 ISO 46				
			154041 927733 11-Feb-11 5 years 1 month 10 years 800	150873 925696 28-Dec-10 5 years 10 years									
Wear Condition			RDE fine		RFS coarse		RDE fine		RFS coarse				
Wear Element	Method	Unit	RDE fine	RFS coarse	RDE fine	RFS coarse	RDE fine	RFS coarse	Reference Oil (RO)	U-Caution	U-Warning	U-Caution	U-Warning
Iron	D-6595	PPM	5.1		21.2	W			0	>10	>17	>10	>18
Chromium	D-6595	PPM	0.6		1.4	C			0	>1	>2	>1	>2
Lead	D-6595	PPM	1.3		0.0				0	>5	>9	>6	>10
Copper	D-6595	PPM	11.7		11.9				0	>43	>75	>30	>55
Tin	D-6595	PPM	0.3		0.0				0	>2	>3	>3	>6
Aluminum	D-6595	PPM	0.0		0.2				0	>2	>3	>2	>4
Nickel	D-6595	PPM	0.2		0.0				0	>1	>2	>2	>3
Silver	D-6595	PPM	0.0		0.0				0				
Molybdenum	D-6595	PPM	0.8		0.9				0				
Titanium	D-6595	PPM	0.0		0.0				0				
Oil Condition			RDE fine		RFS coarse		RDE fine		RFS coarse				
Oil Condition	Method	Unit	RDE fine	RFS coarse	RDE fine	RFS coarse	RDE fine	RFS coarse	RO	L-Warning	L-Caution	U-Caution	U-Warning
Viscosity @ 40°C	D-445	cSt	44.6		44.6				46.0	<41.4	<43.7	>48.3	>50.6
Viscosity @ 100°C	D-445	cSt											
Oxidation	FTIR	Abs	9.1	W	7.4	W			2.5			>3.8	>5
Nitration	FTIR	Abs	3.6	C	3.2	C			2.0			>3	>4
TAN	D-974	mg KOH/g.	1.72	W	1.68	W			0.50			>1	>1.5
TBN	D-4739	mg KOH/g.											
Contamination			RDE fine		RFS coarse		RDE fine		RFS coarse				
Contamination	Method	Unit	RDE fine	RFS coarse	RDE fine	RFS coarse	RDE fine	RFS coarse	RO	U-Caution	U-Warning	U-Caution	U-Warning
Water	T-H2O Check™	% (Wt.)	0.055	W	0.043	C			0.010			>0.03	>0.05
Sodium	D-6595	PPM	6		5				0				
Silicon	D-6595	PPM	0.0		0.0				0	>15	>27	>10	>18
Additive Element			RDE fine		RFS coarse		RDE fine		RFS coarse				
Additive Element	Method	Unit	RDE fine	RFS coarse	RDE fine	RFS coarse	RDE fine	RFS coarse	RO	U-Caution	U-Warning	U-Caution	U-Warning
Boron	D-6595	PPM	0		0				0				
Magnesium	D-6595	PPM	1		1				1				
Calcium	D-6595	PPM	83		89				82				
Barium	D-6595	PPM	7		0				0				
Phosphorus	D-6595	PPM	459		444				398				
Zinc	D-6595	PPM	777		737				746				
Additional Test			RDE fine		RFS coarse		RDE fine		RFS coarse				
Additional Test	Method	Unit	RDE fine	RFS coarse	RDE fine	RFS coarse	RDE fine	RFS coarse	RO	U-Caution	U-Warning	U-Caution	U-Warning
Flash Point	D-3828	°C											
Viscosity Index	D-2270												

Note: Alarm Limits are variable and dependent upon dataset size and to be used as general guideline.
 No Sign or **N** : NORMAL , C or **C** : CAUTION (first level warning limit) , W or **W** : Warning (second level warning limit)
 U-Caution : Upper CAUTION Level L-Caution : Lower CAUTION Level First Level Alarm Alert Limit in Upper Level and/or Lower Level
 U-Warning : Upper WARNING Level L-Warning : Lower WARNING required Level Second Level Alarm Alert Limit in Upper Level and/or Lower Level
 Baseline will be data of either "The new oil" or "Reference oil" or "Oil specification". TNO = The new oil , RO = Reference oil , OS = Oil Specification
 Accuracy of interpretation and recommendation are based on representatives sample and information supplied. No warranty is expressed or implied for this report.

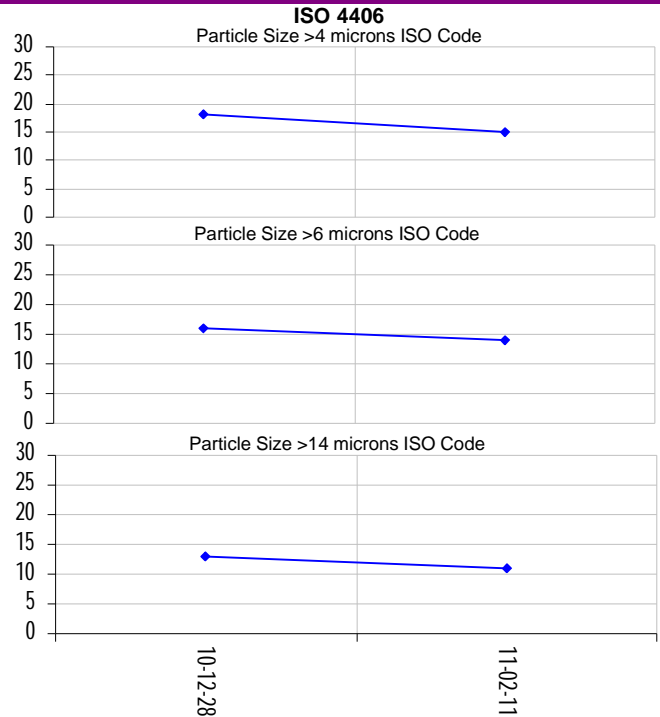
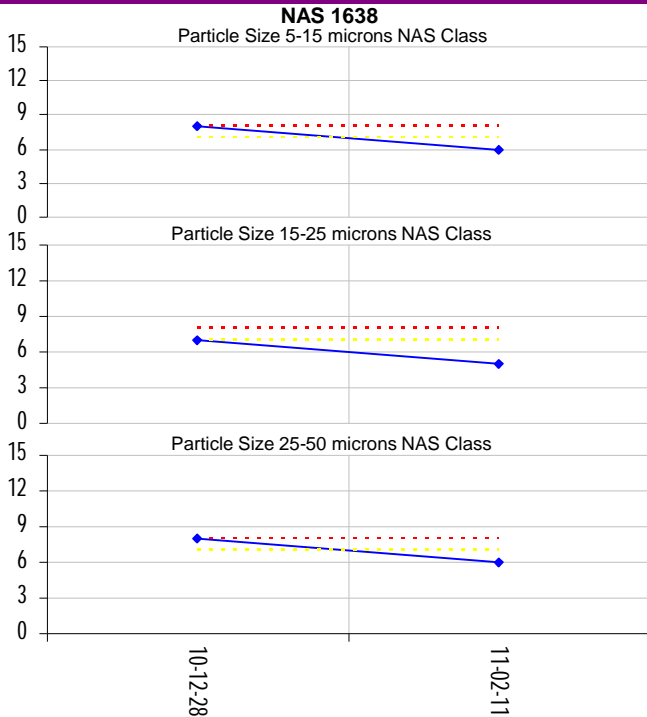
C Code : **16005190**
 U S Name : **B005**
 T O M E R Address : c/o Technoplus Asia Co.,Ltd.
 634/3 Soi Ramkhamhaeng 39 (Thepleela 1)
 Wangthonglang Bangkok 10310
 Site :
 Location :
 Test code : 89308

Unit ID : Turn Forming Head
 Unit Type : Hyd Syst Industrial
 Unit Make : DANIELI
 Unit Model : (not given)
 Oil type / Viscosity : MOBIL DTE 25 ISO 46
 Oil System Capacity : 3000 Liters

Notes (Finding, Evaluation, Interpretation, Suggestion and Recommendation)

Particle count shows oil cleanliness level acceptable.
 Contamination levels are improving.

Lab ID	Current Sample		Previous Sample				Particle Count					
	154041		150873				NAS 1638 ISO 4406					
Bottle ID	927733		925696				BASELINE	Alarm Limit				
Date Sampled	11-Feb-11		28-Dec-10					Hyd Syst General MB DTE 25 ISO 46				
Oil Hours (Kms)	5 years 1 month		5 years									
Unit Hours (Kms)	10 years		10 years									
Oil Added (Liters)												
Filters Hours (Kms)	800											
Contamination												
Particle Count NAS 1638 System Standard												
Particle Size Range	No. of Particles / 100ml.	Class	No. of Particles / 100ml.	Class	No. of Particles / 100ml.	Class	Class	No. of Particles / 100ml.	Class	No. of Particles / 100ml.	Class	
Particle Size 5-15 microns	10,000	6	43,900	8 W				>16000	7	>32000	8	
Particle Size 15-25 microns	900	5	4,000	7 C				>2850	7	>5700	8	
Particle Size 25-50 microns	200	6	1,100	8 W				>506	7	>1012	8	
Particle Size 50-100 microns	<100	5	100	7								
Particle Size >100 microns	<100	2	<100	5								
Particle Count ISO 4406:1999 System Standard												
Particle Size Range	No. of Particles / ml.	Class	No. of Particles / ml.	Class	No. of Particles / ml.	Class	Class	No. of Particles / ml.	Class	No. of Particles / ml.	Class	
Particle Size > 4 microns	297	15	1,317	18								
Particle Size > 6 microns	83	14	368	16								
Particle Size > 14 microns	11	11	51	13								
ISO 4406 Class Rating	15/14/11		18/16/13									



C Code : 16005190

U Name : B005

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M Wangthonglang Bangkok 10310

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R Site :

Location :

Test code : 89308

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Unit ID : Turn Forming Head

Unit Type : Hyd Syst Industrial

Unit Make : DANIELI

Unit Model : (not given)

Oil type/
Viscosity : MOBIL DTE 25 ISO 46

Oil System Capacity : 3000 Liters

Lab ID : 154041 Date sampled : 11-Feb-11 Hours on Oil : 5 years 1 month Hours on Unit : 10 years Bottle ID : 927733

ส่วนที่ 1 : หน้าหลัก

[Section 1 : Main Page](#)

สภาพการสึกหรอและผลทดสอบการสึกหรอทั้งหมด พบว่าอยู่ในช่วงปกติ
ผลการตรวจนับอนุภาคสิ่งสกปรกชี้ว่าระดับความสะอาดของน้ำมันยอมรับไม่ได้แล้ว
ระดับความสกปรกกำลังได้รับการปรับปรุงให้ดีขึ้น
ผลทดสอบคุณสมบัติน้ำมัน ชี้น้ำมันใกล้ถึงอายุไขแล้ว
แนะนำเก็บตัวอย่างซ้ำอีกครั้งภายใน 500 ชั่วโมง หลังจากเก็บตัวอย่างครั้งนี้ เพื่อเฝ้าติดตาม

ส่วนที่ 2 : หน้าที่สอง

[Section 2 : Second Page](#)

ค่าการตรวจนับจำนวนอนุภาค (Particle Count) บอกระดับความสะอาดของน้ำมัน อยู่ในช่วงปกติ-ยอมรับได้
ระดับความสกปรกกำลังได้รับการปรับปรุงให้ดีขึ้น

ส่วนที่ 3 : หน้าของ Analytical Ferrography

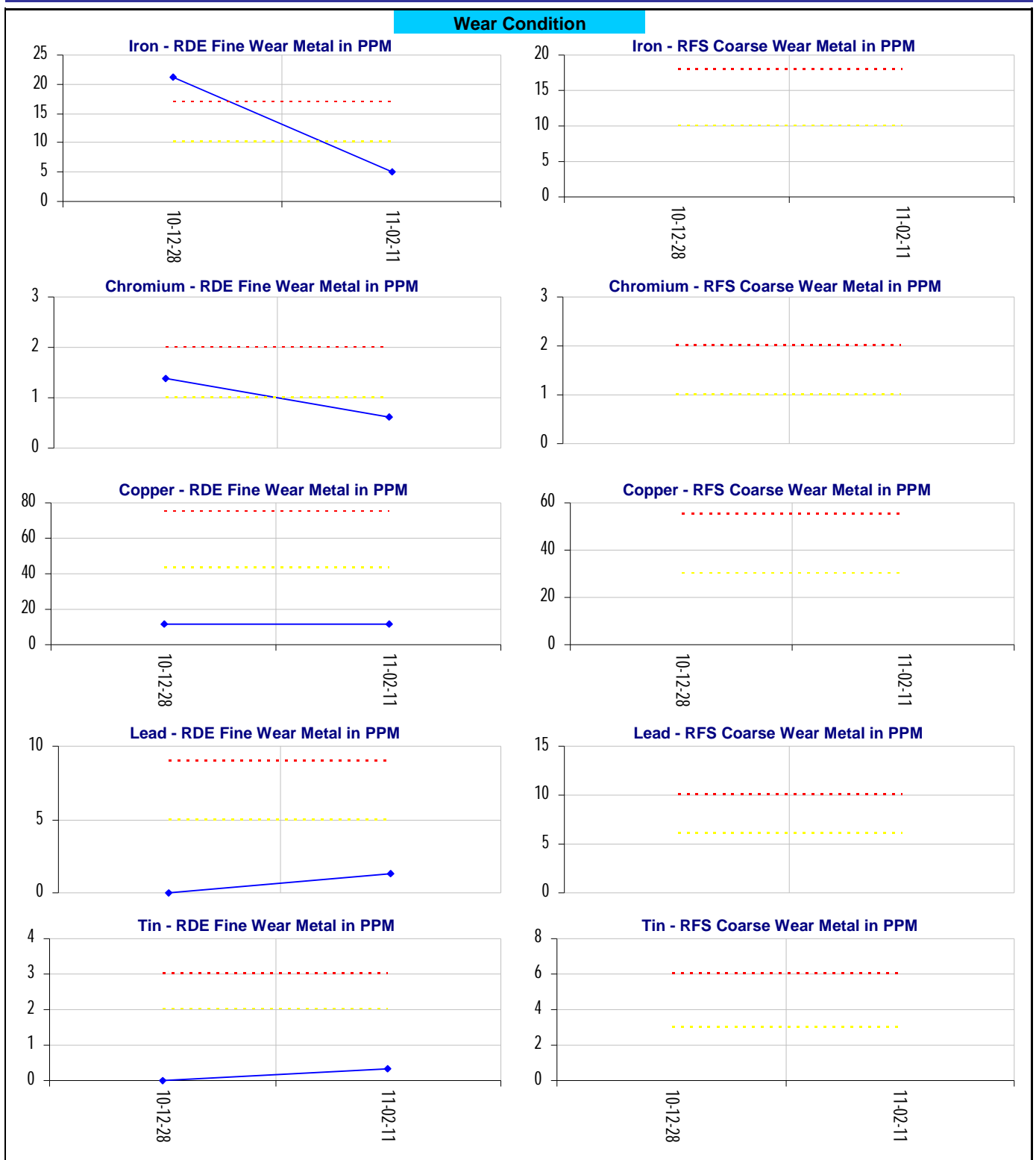
[Section 3 : Analytical Ferrography Page](#)

ส่วนที่ 4 : หน้าของ Gravimetric Page

[Section 4 : Gravimetric Page](#)

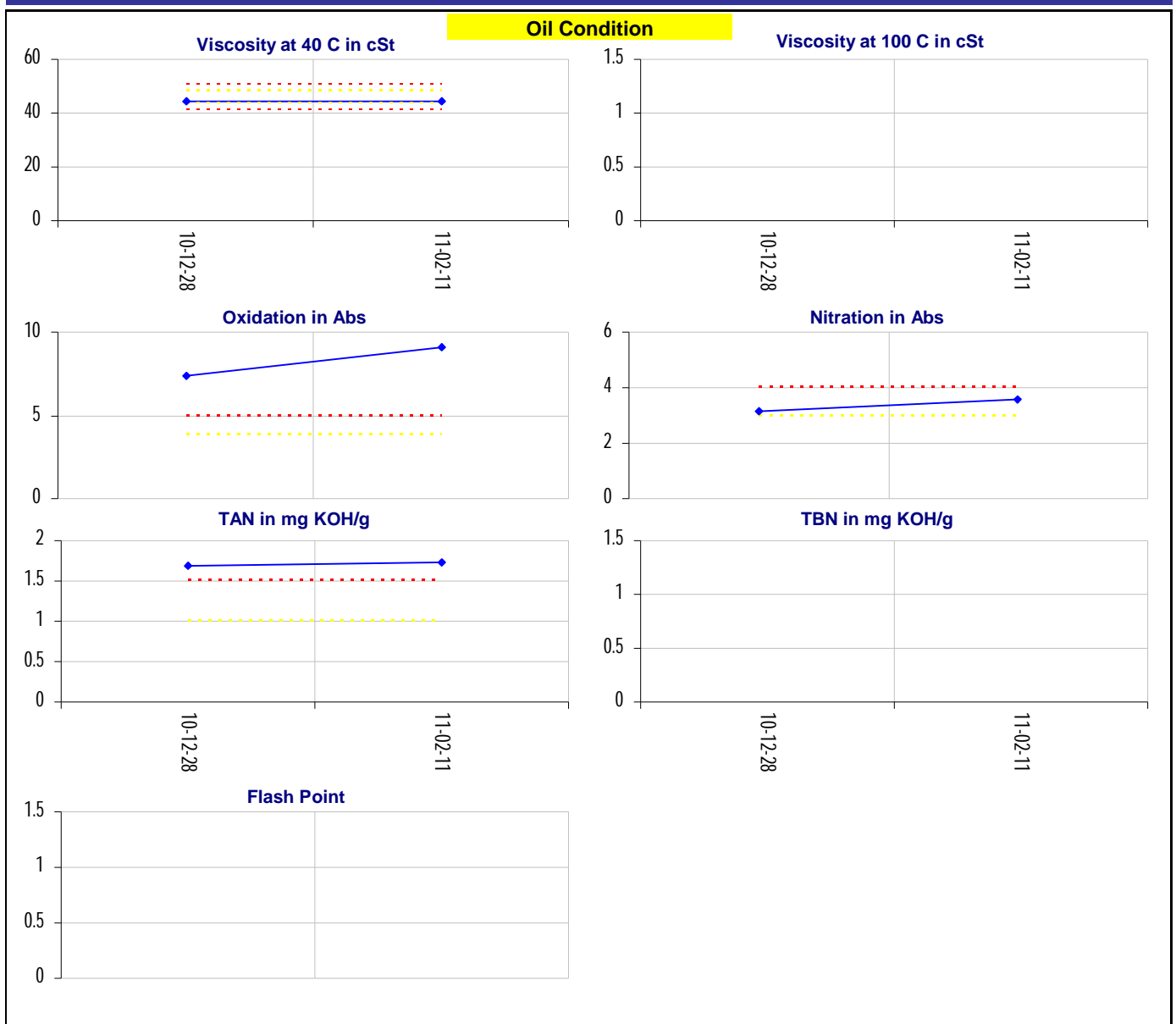
C Code : 16005190
 U Name : B005
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 O
 M Address : c/o Technoplus Asia Co., Ltd.
 E 634/3 Soi Ramkhamhaeng 39 (Thepleela 1)
 R Wangthonglang Bangkok 10310
 Site :
 Location :
 Test code : 89308

E Unit ID : Turn Forming Head
 O Unit Type : Hyd Syst Industrial
 U Unit Make : DANIELI
 I Unit Model : (not given)
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 Oil type / Viscosity : MOBIL DTE 25 ISO 46
 Oil System Capacity : 3000 Liters



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