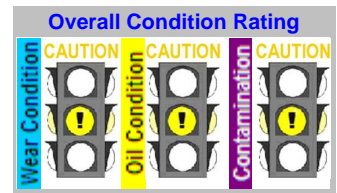


C Code : 16005190  
 U Name : B005  
 T  
 O  
 M Address : c/o Technoplus Asia Co.,Ltd.  
 E 634/3 Soi Ramkhamhaeng 39 (Thepleela 1)  
 R Wangthonglang Bangkok 10310  
 Site :  
 Location :  
 Test code : 89308

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



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

Oil condition tests indicate that the oil is near the end of its useful service life.  
 Particle count indicates that oil cleanliness level is in unacceptable range.  
 Note abnormal wear metals.  
 Recommend check the oil filters for proper operation and suggest using an off-line filtration system to clean up the oil system.

Somchai J / Andy Siltton

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

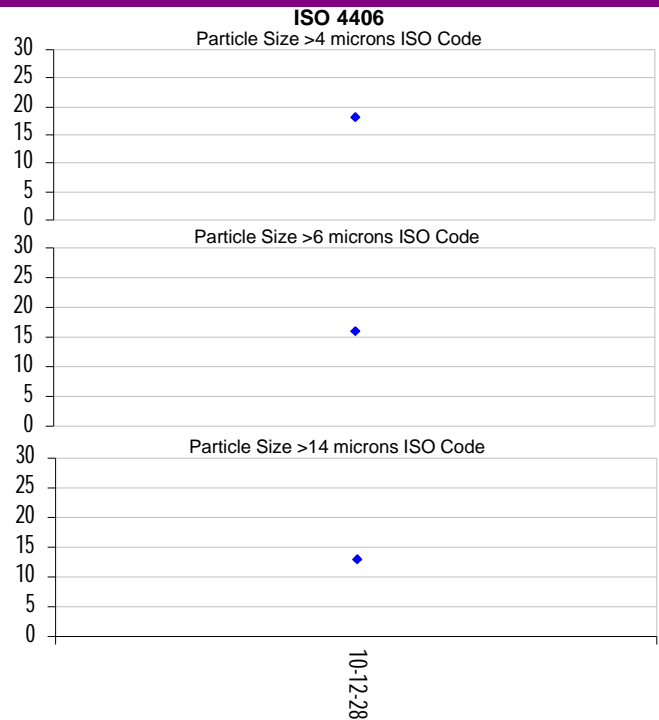
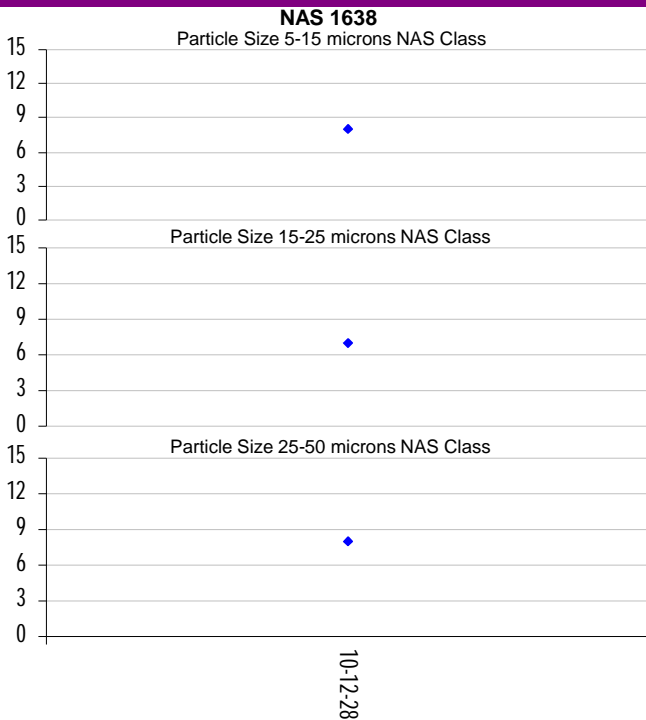
C Code : **16005190**  
 U S Name : **B005**  
 T  
 O M Address : c/o Technoplus Asia Co.,Ltd.  
 E 634/3 Soi Ramkhamhaeng 39 (Thepleela 1)  
 R Wanqthonglanq Bangkok 10310  
 Site :  
 Location :  
 Test code : 89308

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

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

Particle count indicates that oil cleanliness level is in unacceptable range.

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



C Code : **16005190**U Name : **B005**S Address : c/o Technoplus Asia Co.,Ltd.  
634/3 Soi Ramkhamhaeng 39 (Thepleela 1)  
R Wangthonglang Bangkok 10310

Site :

Location :

Test code : 89308

E Unit ID : **Turn Forming Head**

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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 : 150873 Date sampled : 28-Dec-10 Hours on Oil : 5 years Hours on Unit : 10 years Bottle ID : 925696

**ส่วนที่ 1 : หน้าหลัก**[Section 1 : Main Page](#)

ผลทดสอบคุณสมบัติน้ำมัน ชีว้ำมันใกล้เคียงอายุไขแล้ว

ผลการตรวจนับอนุภาคสิ่งสกปรกชี้ว่าระดับความสะอาดของน้ำมันยอมรับไม่ได้แล้ว

สังเกต-อนุภาคเศษโลหะสึกหรอที่ผิดปกติ

แนะนำให้ตรวจสอบการทำงานของกรองน้ำมัน เพื่อตรวจสอบหาการทำงานที่ผิดปกติ และแนะนำใช้ระบบกรองภายนอกพร้อมด้วย เพื่อจัดการให้ระบบน้ำมันสะอาดขึ้น

**ส่วนที่ 2 : หน้าที่สอง**[Section 2 : Second Page](#)

ผลการตรวจนับอนุภาคสิ่งสกปรกชี้ว่าระดับความสะอาดของน้ำมันยอมรับไม่ได้แล้ว

**ส่วนที่ 3 : หน้าของ Analytical Ferrography**[Section 3 : Analytical Ferrography Page](#)**ส่วนที่ 4 : หน้าของ Gravimetric Page**[Section 4 : Gravimetric Page](#)