

Before OCTCET35/Untreated diesel



UIN 040D32A

Diesel Engine

Unit No. E199

Unit:

Make

Model

Serial No. LLA03369

Site Victory

Compartment:

Name Generator 2 Engine

Make Caterpillar

Model 3512C

Serial No.

Capacity:

Customer:

VICTORY

DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range.

Action: Resample next service interval to further monitor.

ANALYST: Sam Smith Phoenix

<p>Normal</p>	LEGEND			
	<p>Severe</p>	<p>Abnormal</p>	<p>Caution</p>	<p>Normal</p>

DATE SAMPLED	15-Feb-15
DATE RECEIVED	23-Feb-15
DATE REPORTED	26-Feb-15

LAB NO.	44021141110
SIF NO.	18052316
TIME ON UNIT	Hrs 8326
TIME ON OIL	Hrs 3347
OIL BRAND	Mobil
OIL TYPE	Fleet
OIL GRADE	SAE 15W40
OIL ADDED	
FILTER	Hrs
OIL CHANGED	Not Changed
WO NUMBER	

Metals (ppm)

Iron (Fe)	18
Chromium (Cr)	<1
Lead (Pb)	3
Copper (Cu)	11
Tin (Sn)	<1
Aluminium (Al)	<1
Nickel (Ni)	<1
Silver (Ag)	<1
Titanium (Ti)	<1
Vanadium (V)	<1

Contaminants (ppm)

Silicon (Si)	1
Sodium (Na)	<1
Potassium (K)	15
Coolant	No

Additives (ppm)

Magnesium (Mg)	646
Calcium (Ca)	1135
Barium (Ba)	<1
Phosphorus (P)	898
Zinc (Zn)	1090
Molybdenum (Mo)	37
Boron (B)	<5

Contaminants

Water (%)	<0.05
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Physical Tests

Viscosity (cSt 100C)	12.1
Fuel (%)	2
Soot (%) Infrared	0.3

Physical / Chemical

Base Number (mgKOH/g)	4.8
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With OCTCET35 treated diesel



Lubricant Analysis Report

North America: +1-877-808-3750

0	1	2	3	4
NORMAL	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: 725766-1411-0000 Company Name: SCANDRILL - VICTORY Contact: Address: Phone Number:		Component ID: E199 ENGINE Secondary ID: LLA03369 Component Type: DIESEL ENGINE Manufacturer: CATERPILLAR Model: 3512C Application: ON-SHORE DRILLING Sump Capacity: 0 gal		Tracking Number: 15356P02755 Lab Number: H-063865 Lab Location: Houston Data Analyst: BJN Sampled: 15-Mar-2016 Submitted: 15-Mar-2016 Received: 18-Mar-2016 Completed: 21-Mar-2016	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: FULLFLOW Micron Rating: 0				Product Manufacturer: MOBIL Product Name: FLEET Viscosity Grade: SAE 15W40	
Comments		Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. LEAD is at a MODERATE LEVEL and may be OVERLAY METAL from MAIN/ROD BEARINGS; Viscosity is SLIGHTLY LOW. Causes include contamination, incorrectly identified viscosity grade, or adding a different viscosity grade to the component.			

Sample #	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additive Metals (ppm)					
	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1	17	0	0	0	5	6	0	0	0	0	7	9	7	0	53	0	0	0	0	916	1176	0	1047	1283

Sample #	Sample Information							Contaminants			Fluid Properties					
	Date Sampled	Date Received	Lube Time	Unit Time	Lube Change	Lube Added	Filter Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100°C	Acid Number	Base Number	Oxidation	Nitration
			h	h		gal		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
1	15-Mar-2016	18-Mar-2016	2639	13062	No	0	No	1.4 - GC	<.1	<.1 - FTIR		12.3		4.64		

Sample #	Particle Count (particles/mL)										Additional Testing	
	ISO Code	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	Test Method		
1	//											

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Missing fluid or component information limits the evaluation. No warranty is expressed or implied.

Historical Comments	1	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. LEAD is at a MINOR LEVEL and may be OVERLAY METAL from MAIN/ROD BEARINGS;
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