

NORMAL WEAR CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

Machine Id CATERPILLAR 219-1501 onen

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.	Sample Number		Client Info		PC0088645		
	Sample Date		Client Info		28 Mar 2024		
	Machine Age	hrs	Client Info		3709		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185(m)	>100	9		
	Chromium	ppm	ASTM D5185(m)		0		
	Nickel	ppm	ASTM D5185(m)		<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)		2		
	Lead	ppm	ASTM D5185(m)		0		
	Copper	ppm	ASTM D5185(m)		2		
	Tin	ppm	ASTM D5185(m)		0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		4		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>3	0.1		
	Nitration	Abs/cm	ASTM D7624*	>20	8.0		
	Sulfation	Abs/.1mm	ASTM D7415*		20.4		
	Silt	scalar	Visual*	NONE	VLITE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>158	2		
	Boron	ppm	ASTM D5185(m)		51		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		<1		
	Molybdenum	ppm	ASTM D5185(m)		50		
	Manganese	ppm	ASTM D5185(m)		<1		
	Magnesium	ppm	ASTM D5185(m)	450	312		
	Calcium	ppm	ASTM D5185(m)		1844		
	Phosphorus	ppm	ASTM D5185(m)		805		
	Zinc	ppm	ASTM D5185(m)		935		
	Sulfur	ppm	ASTM D5185(m)		2370		
	Oxidation	Abs/.1mm	ASTM D7414*		18.5		

Visc @ 40°C cSt ASTM D7279(m) 115

Viscosity Index (VI) Scale ASTM D2270* 126

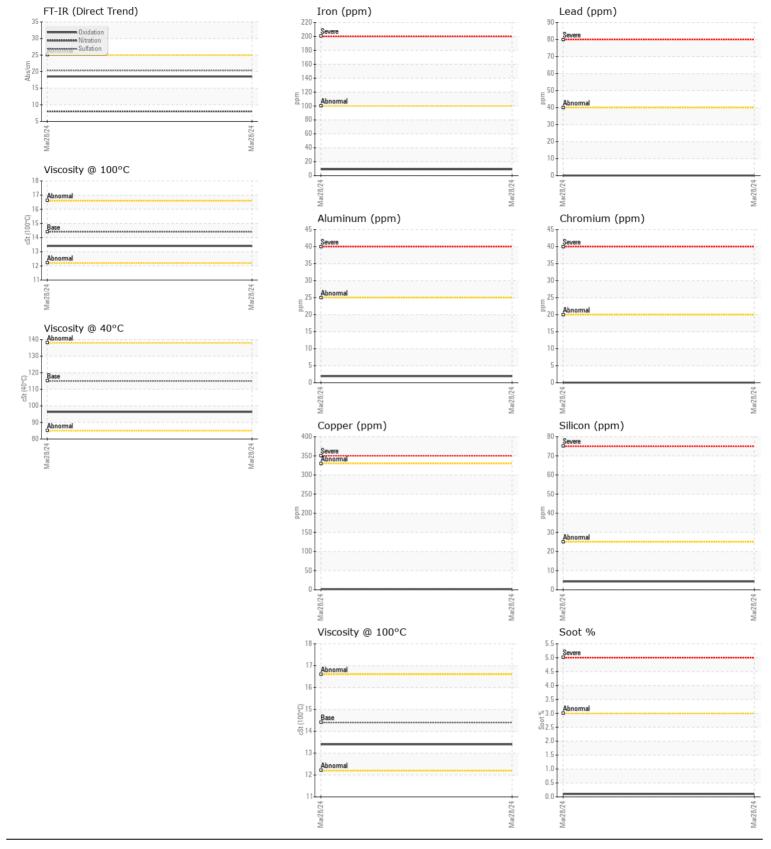
ASTM D7279(m) 14.4

Visc @ 100°C cSt

96.3

13.4

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LAVIS CONTRACTING Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received 37462A HURON ROAD : PC0088645 : 19 Apr 2024 Ŀ Lab Number Tested : 02630158 : 19 Apr 2024 CLINTON, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5763290 CA NOM 1L0 Diagnosed : 19 Apr 2024 - Kevin Marson Test Package : MOB 1 (Additional Tests: KV40, VI, Visual) Contact: Doug Francis To discuss this sample report, contact Customer Service at 1-800-268-2131. dfrancis@lavis.ca T: (519)482-3694 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (519)482-7886 Validity of results and interpretation are based on the sample and information as supplied.