



Machine Id **CATERPILLAR 320B EXC01** onen

Diesel Engine

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

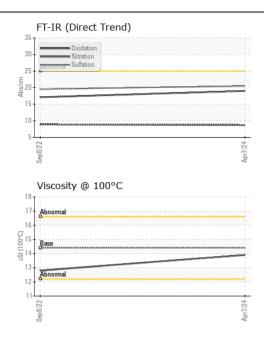
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0902315	WC0726841	
	Sample Date		Client Info		07 Apr 2024	08 Sep 2022	
	Machine Age	hrs	Client Info		19178	18660	
	Oil Age	hrs	Client Info		0	250	
	Filter Age	hrs	Client Info		0	250	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185(m)	>100	9	9	
	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		0	0	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)	>2	0	0	
	Aluminum	ppm	ASTM D5185(m)		2	2	
	Lead	ppm	ASTM D5185(m)		<1	3	
	Copper	ppm	ASTM D5185(m)	>330	<1	<1	
	Tin	ppm	ASTM D5185(m)	>15	0	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	6	4	
	Potassium	ppm	ASTM D5185(m)		۰ <1	<1	
There is no indication of any contamination in the oil.	Fuel	ррш	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	20.2	NEG	NEG	
	Soot %	%	ASTM D7844*	>3	0.1	0	
	Nitration	Abs/cm	ASTM D7624*	>20	8.7	8.9	
	Sulfation	Abs/.1mm		>30	20.5	19.5	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
	0"			450			
	Sodium	ppm	ASTM D5185(m)		2	2	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		21	18	
	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)	100	54	71	
	Manganese	ppm	ASTM D5185(m)	450	0 852	<1	
	Magnesium Calcium	ppm	ASTM D5185(m)			827	
	Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)	3000	1346	1133 988	
		ppm			945		
	Zinc	ppm	ASTM D5185(m) ASTM D5185(m)		1117 2472	1095	
	Sulfur Oxidation	ppm	ASTM D5185(m) ASTM D7414*		2472 19.0	2394	
		AUS/.IIIIII	ASTM D7414	>20	19.0	17.1	

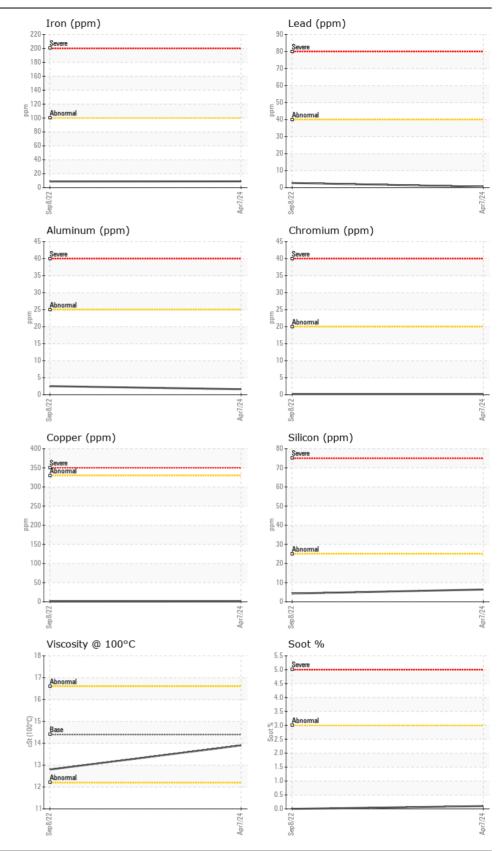
Visc @ 100°C cSt ASTM D7279(m) 14.4

Contact/Location: Jay Gould - KIR370KIR

12.8

13.9





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Agnico Eagle Canada CALA Sample No. 1350 Government Rd. W, MACASSA COMPLEX : WC0902315 Received : 12 Apr 2024 Lab Number : 02628357 Tested : 12 Apr 2024 Kirkland Lake, ON ISO 17025:2017 Accredited Unique Number : 5761489 : 12 Apr 2024 - Wes Davis CA P2N 3J1 Diagnosed Laboratory Test Package : MOB 1 Contact: Jay Gould To discuss this sample report, contact Customer Service at 1-800-268-2131. MacassaMobileUGPlanning@agnicoeagle.com T: (705)567-5208 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied. F: (705)567-5221

Contact/Location: Jay Gould - KIR370KIR Page 2 of 2