

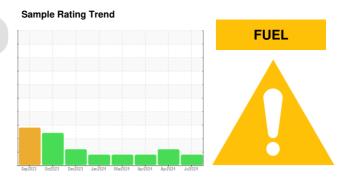
OIL ANALYSIS REPORT



Machine Id CATERPILLAR R1600 SCP219

Diesel Engine

MOBIL 15W40 (--- GAL)



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0960982	WC0931357	WC0928368
Sample Date		Client Info		07 Jul 2024	19 Apr 2024	06 Apr 2024
Machine Age	hrs	Client Info		4484	3618	3621
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	MARGINAL
CONTAMINATION	l	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	28	16	30
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>25	1	1	2
Lead	ppm	ASTM D5185(m)	>40	6	4	4
Copper	ppm	ASTM D5185(m)	>330	14	19	4
Tin	ppm	ASTM D5185(m)	>15	2	2	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		33	31	33
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		43	40	40
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		542	513	516
Calcium	ppm	ASTM D5185(m)		1815	1769	1782
Phosphorus	ppm	ASTM D5185(m)		734	709	729
Zinc	ppm	ASTM D5185(m)		931	870	896
Sulfur	ppm	ASTM D5185(m)		2062	1964	2163
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)	>25	4	3	5
Silicon	ppin			5	4	3
Silicon Sodium	ppm	ASTM D5185(m)	>118	5	4	0
		ASTM D5185(m) ASTM D5185(m)	>118 >20	5 2	1	<1
Sodium	ppm					
Sodium Potassium	ppm ppm	ASTM D5185(m)	>20	2	1	<1
Sodium Potassium Fuel	ppm ppm	ASTM D5185(m) ASTM D7593*	>20 >5	2 ▲ 3.8	1 ▲ 6.1	<1
Sodium Potassium Fuel INFRA-RED	ppm ppm %	ASTM D5185(m) ASTM D7593* method	>20 >5 limit/base	2 3.8 current	1 ▲ 6.1 history1	<1 2.6 history2

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

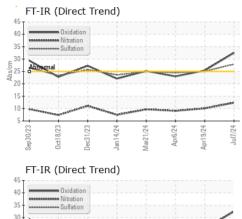
Light fuel dilution occurring. No other contaminants were detected in the oil.

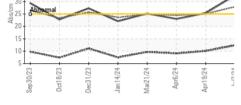
Fluid Condition

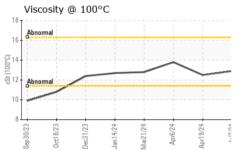
The condition of the oil is acceptable for the time in service.



OIL ANALYSIS REPORT







Ο

400

350

300

250 គ្គ 200

150

100

50

C

18

(D°C)

-53 12

Sen30/73

0+18/73

lec.31

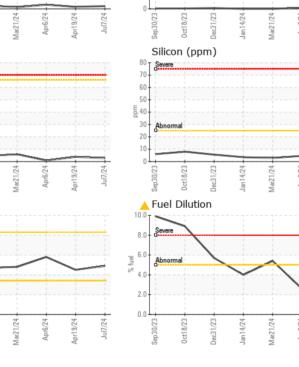
Copper (ppm)

Viscosity @ 100°C

Dec31/23

an14/74





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Agnico Eagle Canada CALA Sample No. : WC0960982 Received : 10 Jul 2024 1350 Government Rd. W, MACASSA COMPLEX Lab Number : 02646947 Tested : 11 Jul 2024 Kirkland Lake, ON ISO 17025:2017 Accredited Unique Number : 5812499 Diagnosed : 11 Jul 2024 - Kevin Marson CA P2N 3J1 Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Phil St-Denis To discuss this sample report, contact Customer Service at 1-800-268-2131. Phil.St-Denis@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

Report Id: KIR370KIR [WCAMIS] 02646947 (Generated: 07/11/2024 11:20:15) Rev: 1

Contact/Location: Phil St-Denis - KIR370KIR

lu17/24

pr19/24