

Machine Id CATERPILLAR 950G 259 Diesel Engine Fluid PETRO CANADA 15W40 (32 QTS)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		RW0004754	RW0004741	RW0003939
	Sample Date		Client Info		12 Apr 2024	04 Dec 2023	04 Jan 2023
	Machine Age	hrs	Client Info		433	0	3096
	Oil Age	hrs	Client Info		0	143	251
	Filter Age	hrs	Client Info		0	143	251
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ATTENTION	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	11	15	14
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>2	2	5	<1
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	2	2
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	3	13	12
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>\</u> 25	5	10	3
CONTAMINATION	Potassium	ppm	ASTM D5185m		1	0	1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	0.4	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	5.7	6.6	7.0
	Sulfation	Abs/.1mm	*ASTM D7415		17.8	19.8	17.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium		ASTM D5185m		2	5	2
	Boron	ppm	ASTM D5185m		2 12	257	8
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		71	232	60
	Manganese	ppm	ASTM D5185m		1	5	<1
	-	ppm					
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		891 1087	779 1248	944 1128
		ppm				904	1078
	Phosphorus	ppm	ASTM D5185m ASTM D5185m		1027		
	Zinc	ppm			1175	1008	1268
	Sulfur	ppm	ASTM D5185m	. 05	3101	2893	3855
	Oxidation	Abs/.1mm	*ASTM D7414	>20	13.3	14.7	13.9
	Base Number (BN)	mg KOH/g	ASTM D2896		10.63	12.15	9.77

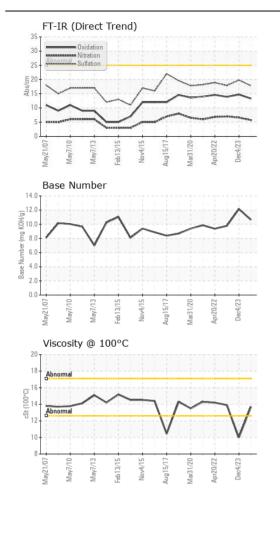
Visc @ 100°C cSt

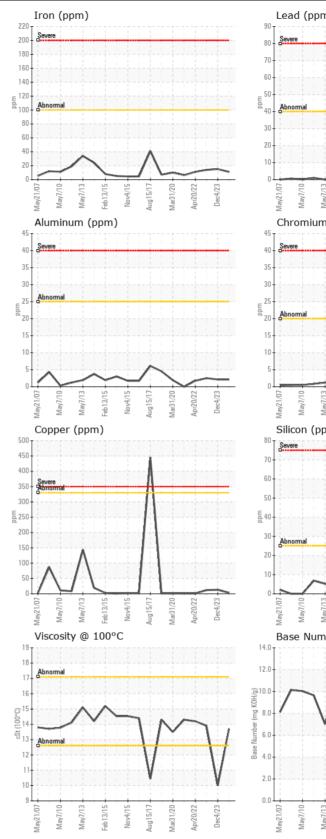
ASTM D445

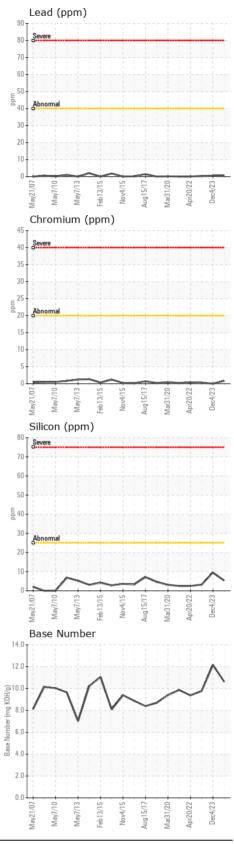
10.0

13.9

13.7









CITY OF FARMINGTON HILLS 27245 HALSTED RD FARMINGTON HILLS, MI US 48331 Contact: JERRY BROCK jbrock@fhgov.com T: (248)871-2850 06:2012) F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: RW0004754

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested

: 23 Apr 2024

: 24 Apr 2024

: 24 Apr 2024 - Wes Davis

Certificate L2367

Laboratory

Sample No.

Lab Number : 06158489

Unique Number : 10993912

Test Package : MOB 2

Contact/Location: JERRY BROCK - CITFARMI Page 2 of 2