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Machine Id DFGS272528 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- QTS)

RECOMMENDATION

Check for low coolant level. We advise that you check for the source of the coolant leak. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

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WEAR

Cylinder, crank, or cam shaft wear is indicated.

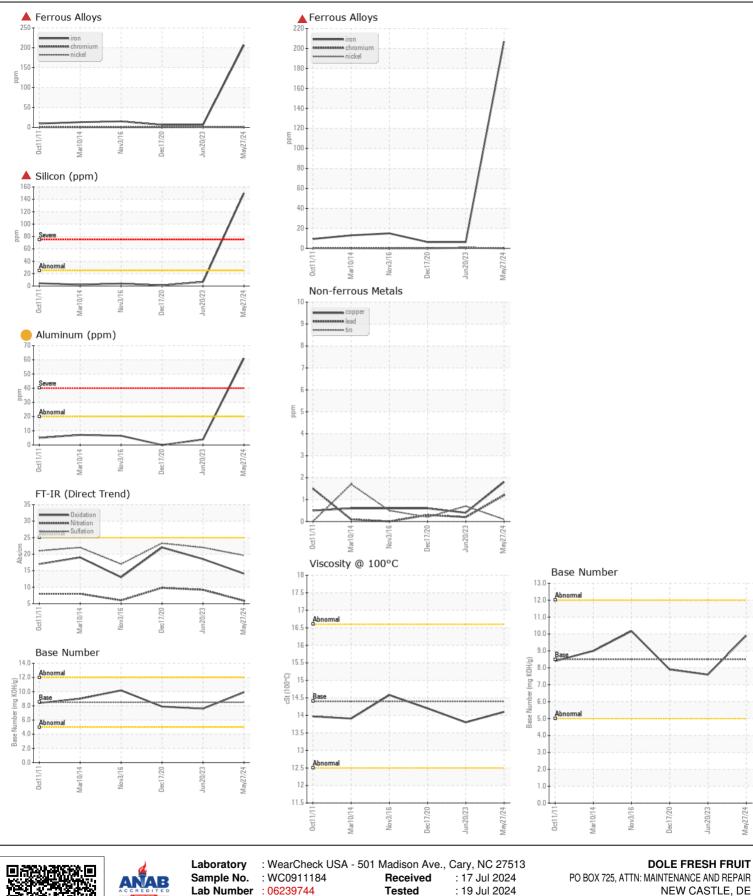
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FLUID CONDITION

Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

	Test	UOM	Method	Limit/Abn		urrent	History1	History2
	Sample Number		Client Info			C0911184	WC0814641	WC0526091
	Sample Date		Client Info		27	May 2024	20 Jun 2023	17 Dec 2020
	Machine Age	hrs	Client Info		17	321	0	13732
	Oil Age	hrs	Client Info		0		0	0
	Filter Age	hrs	Client Info		0		0	0
	Oil Changed		Client Info		N/	Ά	Changed	Changed
	Filter Changed		Client Info		N/	Ά	Changed	Changed
	Sample Status				SE	EVERE	NORMAL	NORMAL
	Iron	ppm	ASTM D5185m	>100		207	6	6
	Chromium	ppm	ASTM D5185m	>20		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4		<1	<1	0
	Titanium	ppm	ASTM D5185m			4	<1	<1
	Silver	ppm	ASTM D5185m	>3		0	0	0
	Aluminum	ppm	ASTM D5185m	>20		61	4	0
	Lead	ppm	ASTM D5185m	>40		1	<1	<1
	Copper	ppm	ASTM D5185m	>330		2	<1	<1
	Tin	ppm	ASTM D5185m	>15		<1	<1	<1
	Vanadium	ppm	ASTM D5185m			<1	0	0
	White Metal	scalar	*Visual	NONE		NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE		NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>25		150	7	1
	Potassium	ppm	ASTM D5185m	>20		22	2	2
	Fuel	ppin	WC Method	>5		<1.0	<1.0	<1.0
	Water		WC Method	>0.2		NEG	NEG	NEG
	Glycol	%	*ASTM D2982	20.2		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3		0.1	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20		5.9	9.2	9.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30		19.6	22.0	23.3
	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	scalar	*Visual	>0.2		NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m	>216		128	6	6
	Boron	ppm	ASTM D5185m	250		321	388	262
	Barium	ppm	ASTM D5185m	10		0	0	<1
	Molybdenum	ppm	ASTM D5185m	100		71	86	115
	Manganese	ppm	ASTM D5185m			2	<1	<1
	Magnesium	ppm	ASTM D5185m	450		425	387	541
	Calcium	ppm	ASTM D5185m	3000		1515	1557	1603
	Phosphorus	ppm	ASTM D5185m	1150		1022	1063	753
	Zinc	ppm	ASTM D5185m	1350		1230	1384	929
	Sulfur	ppm	ASTM D5185m	4250		3890	4065	2267
	Oxidation	Abs/.1mm	*ASTM D7414	>25		14.1	18.5	22
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5		9.9	7.6	7.9
	Visc @ 100°C	cSt	ASTM D445	14.4		14.1	13.8	14.2

The oil is no longer serviceable due to the presence of contaminants.



Lab Number : 06239744 Tested : 19 Jul 2024 : 19 Jul 2024 - Sean Felton US 19720 Unique Number : 11128578 Diagnosed Test Package : FLEET (Additional Tests: Glycol) Contact: LUIS LAPIERRE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. luis.lapierre@dole.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (302)652-6344 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (302)652-6061

Contact/Location: LUIS LAPIERRE - DOLWIL Page 2 of 2