

Current

IL06073750

29 Jan 2024

0

0 0

N/A

N/A

NORMAL

81

4

<1

<1

0

44

<1

4

History1

14 Sep 2022

0

0

0

N/A

N/A

NORMAL

85

4

0

<1

<1

108

<1

66

IL05683440 ----

History2

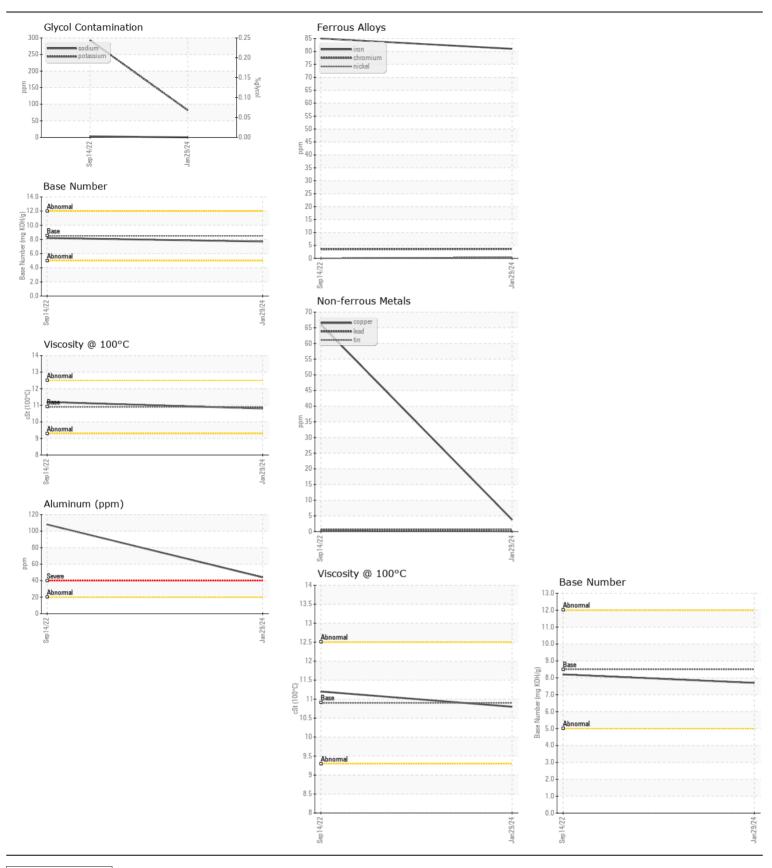
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Machine Id **8149** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 10W30 (--- QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn
No corrective action is recommended at this time. Resample at the	Sample Number		Client Info	
next service interval to monitor.	Sample Date		Client Info	
	Machine Age	mls	Client Info	
	Oil Age	mls	Client Info	
	Filter Age	mls	Client Info	
	Oil Changed		Client Info	
	Filter Changed		Client Info	
	Sample Status			
WEAR	Iron	ppm	ASTM D5185m	>100
	Chromium	ppm	ASTM D5185m	>20
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4
	Titanium	ppm	ASTM D5185m	
	Silver	ppm	ASTM D5185m	>3
	Aluminum	ppm	ASTM D5185m	>20
	Lead	ppm	ASTM D5185m	>40
	Copper	ppm	ASTM D5185m	>330
	Tin	ppm	ASTM D5185m	>15
	Vanadium	ppm	ASTM D5185m	
	White Metal	scalar	*Visual	NONE
	Yellow Metal	scalar	*Visual	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in	Potassium	ppm		>20
your metals analysis are likely a result of solder flux release into the	Fuel		WC Method	>5
lubricant and is common on new equipment/components. No other	Water		WC Method	>0.2
contaminants were detected in the oil.	Glycol		WC Method	
	Soot %	%	*ASTM D7844	>3
	Nitration	Abs/cm	*ASTM D7624	>20
	Sulfation	Abs/.1mm	*ASTM D7415	>30
	Silt	scalar	*Visual	NONE
	Debris	scalar	*Visual	NONE
	Sand/Dirt	scalar	*Visual	NONE
	Appearance	scalar	*Visual	NORML
	Odor	scalar	*Visual	NORML
	Emulsified Water	scalar	*Visual	>0.2
FLUID CONDITION	Sodium	ppm	ASTM D5185m	
	Paran	nom	ACTM DE10Em	050

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Vanadium White Metal	ppm ppm scalar	ASTM D5185m ASTM D5185m	>15	<1		<1	
White Metal		ASTM D5185m		•			
	ecalar			0		0	
Yellow Metal	Juaiai	*Visual	NONE	NO	NE	NONE	
	scalar	*Visual	NONE	NO	NE	NONE	
Silicon	ppm	ASTM D5185m	>25	10		21	
Potassium	ppm	ASTM D5185m	>20	82		293	
Fuel		WC Method	>5	<1.0	D	1.6	
Water		WC Method	>0.2	NE	G	NEG	
Glycol		WC Method		NE	G	NEG	
Soot %	%	*ASTM D7844	>3	0.8		0.5	
Nitration	Abs/cm	*ASTM D7624	>20	11.4	4	11.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.	5	23.0	
Silt	scalar	*Visual	NONE	NO	NE	NONE	
Debris	scalar	*Visual	NONE	NO	NE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NO	NE	NONE	
Appearance	scalar	*Visual	NORML	NO	RML	NORML	
Odor	scalar	*Visual	NORML	NO	RML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NE	G	NEG	
	ppm	ASTM D5185m		0		3	
	ppm	ASTM D5185m	250	25		24	
Barium	ppm	ASTM D5185m	10	0		2	
Molybdenum	ppm	ASTM D5185m	100	50		47	
Manganese	ppm	ASTM D5185m		1		4	
Magnesium	ppm	ASTM D5185m	450	470		642	
Calcium	ppm	ASTM D5185m	3000	158	7	1231	
Phosphorus	ppm	ASTM D5185m	1150	648		608	
Zinc	ppm	ASTM D5185m	1350	894	.	792	
Sulfur	ppm	ASTM D5185m	4250	229	6	2127	
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8	в	20.8	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.7		8.2	
Visc @ 100°C	cSt	ASTM D445	10.9	10.8	3)	11.2	







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

: 30 Jan 2024 : 31 Jan 2024 : Don Baldridge

IDEALEASE-NORCROSS 4571 NORTH BUFORD HWY NORCROSS, GA US 30071-2808

Contact: RICK MARKS

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

Contact/Location: RICK MARKS - IDENORGA