WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id
4036
Component
Diesel Engine
Fluid

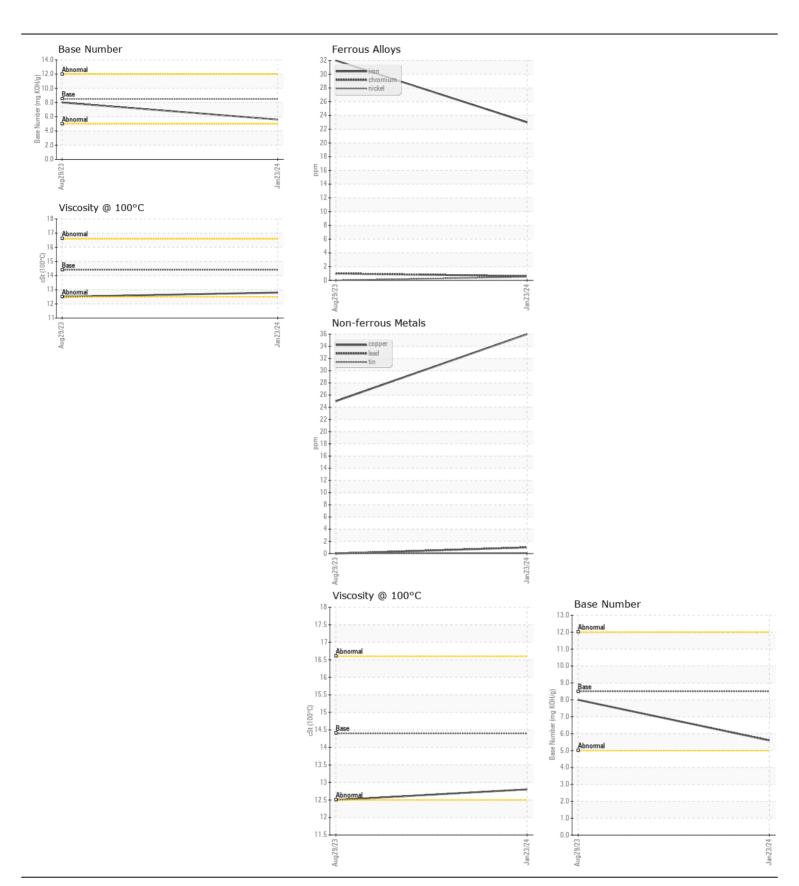
Diesel Engine	CAL						
DIESEL ENGINE OIL SAE 40 (Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Number	OOW	Client Info	LITTIOADTI	JR0195145	JR0169452	-
	Sample Date		Client Info		23 Jan 2024	29 Aug 2023	
	Machine Age	hrs	Client Info		1636	1139	
	Oil Age	hrs	Client Info		500	1000	
	Filter Age	hrs	Client Info		500	1000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	23	32	
WEAT	Chromium	ppm	ASTM D5185m		<1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		4	3	
	Lead	ppm	ASTM D5185m		1	0	
	Copper	ppm	ASTM D5185m		36	25	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	9	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	0	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	11.6	
	Sulfation	Abs/.1mm	*ASTM D7415		22.0	23.1	
	Silt	scalar	*Visual	NONE	NONE NONE	NONE	
	Debris Sand/Dirt	scalar	*Visual	NONE	_	NONE	
	Appearance	scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE NORML	
	Odor	scalar scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
	Linuisinea water		Visuai			INLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	5	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	7	10	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	100	14	45	
	Manganese	ppm	ASTM D5185m		1	2	
	Magnesium	ppm	ASTM D5185m		166	544	
	Calcium	ppm	ASTM D5185m		2067	1834	
	Phosphorus	ppm	ASTM D5185m		883	959	
	Zinc	ppm	ASTM D5185m		1057	1209	
	Sulfur	ppm	ASTM D5185m		3322	3472	
	Oxidation	Abs/.1mm	*ASTM D7414		16.8	24.1	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.6	8.0	

Visc @ 100°C cSt

ASTM D445 14.4

12.5

12.8







Laboratory Sample No. Lab Number **Unique Number**

: JR0195145 : 06075604 : 10857695

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 Diagnosed

: 01 Feb 2024 Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: TBN) 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)

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