WEAR CONTAMINATION FLUID CONDITION

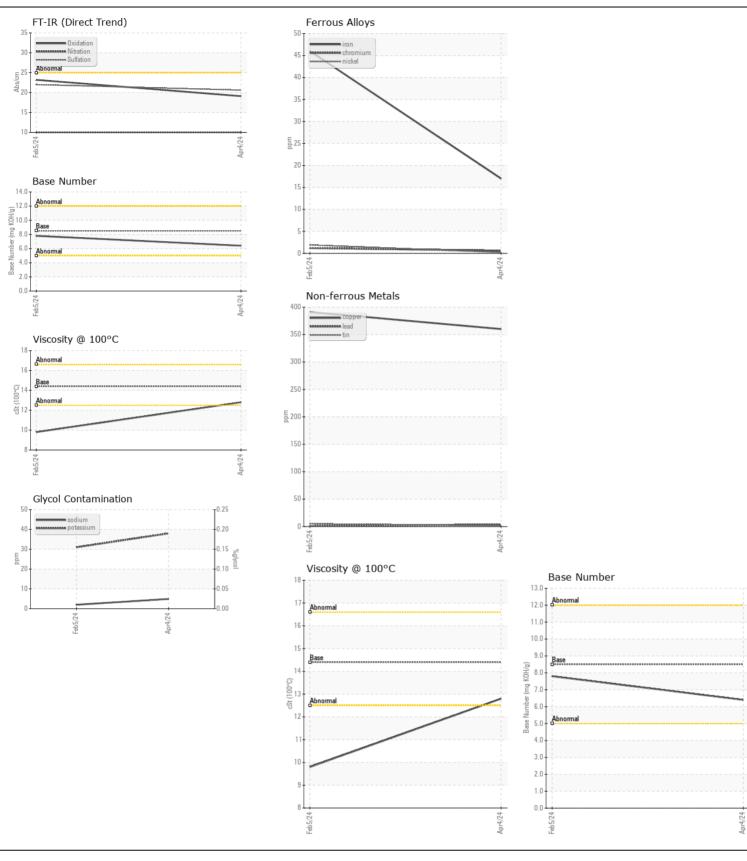
NORMAL NORMAL

Machine Id **2-277**

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number	0 0 1 11	Client Info		WC0926262	WC0899969	
	Sample Date		Client Info		04 Apr 2024	05 Feb 2024	
	Machine Age	hrs	Client Info		1547	779	
	Oil Age	hrs	Client Info		768	779	
	Filter Age	hrs	Client Info		768	779	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>100	17	46	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	
	Nickel	ppm	ASTM D5185m	>4	<1	2	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	<1	
	Aluminum	ppm	ASTM D5185m	>20	7	13	
	Lead	ppm	ASTM D5185m	>40	4	<1	
	Copper	ppm	ASTM D5185m	>330	360	391	
	Tin	ppm	ASTM D5185m	>15	1	5	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	12	
	Potassium	ppm	ASTM D5185m	>20	38	31	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	0.2	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	%	*ASTM D2982		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	22.0	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	5	2	
The DNI regult indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	34	56	
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	14	
	Molybdenum	ppm	ASTM D5185m	100	21	61	
	Manganese	ppm	ASTM D5185m		<1	4	
	Magnesium	ppm	ASTM D5185m		665	735	
	Calcium	ppm	ASTM D5185m		1494	2302	
	Phosphorus	ppm	ASTM D5185m		664	958	
	Zinc	ppm	ASTM D5185m		787	1164	
	Sulfur	ppm	ASTM D5185m		2522	3043	
	Oxidation	Abs/.1mm	*ASTM D7414		19.1	23.2	
	Base Number (BN)	0 0			6.4	7.8	
	Visc @ 100°C	cSt	ASTM D445	14.4	12.8	9.8	







Certificate L2367

Laboratory

Sample No.

: WC0926262 Lab Number : 06151008

Unique Number: 10981086

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

: 16 Apr 2024

: 19 Apr 2024

: 19 Apr 2024 - Jonathan Hester

Diagnosed Test Package : FLEET (Additional Tests: Glycol)

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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