



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 103559
Component
Diesel Engine
Fluid
SHELL ROTELLA T 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033012	IL0032761	IL0027575
Sample Date		Client Info		19 Apr 2024	24 Oct 2023	10 Apr 2023
Machine Age	mls	Client Info		226156	212622	198044
Oil Age	mls	Client Info		13534	14578	12691
Filter Age	mls	Client Info		13534	14578	12691
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>130	27	33	43
Chromium	ppm	ASTM D5185m	>10	1	1	2
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	19	14	▲ 25
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>125	<1	1	2
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

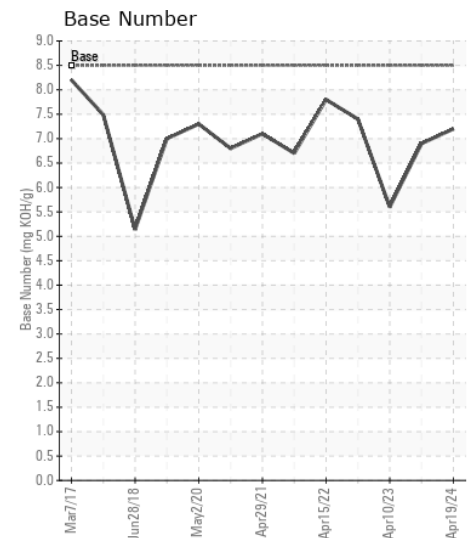
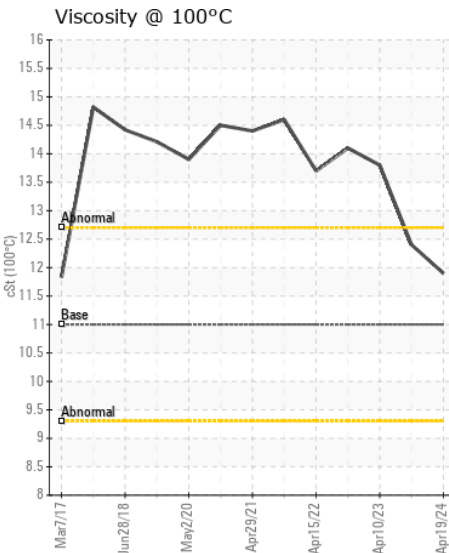
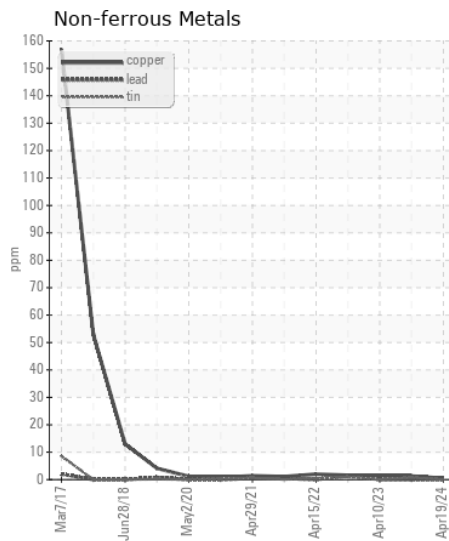
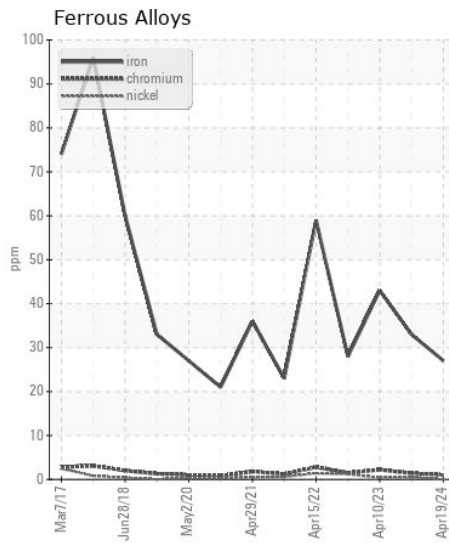
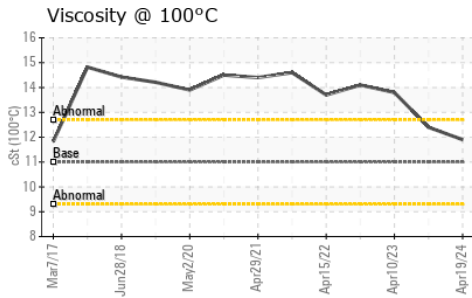
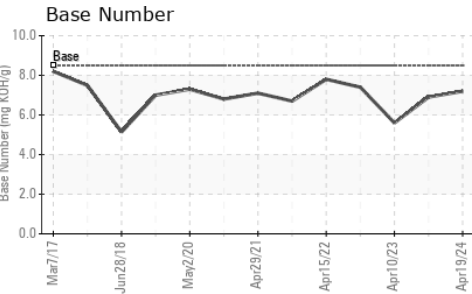
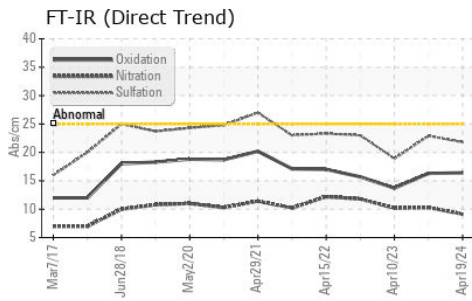
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	7	11
Potassium	ppm	ASTM D5185m	>20	7	7	6
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	1.3	1.6	1.3
Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.3	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.9	18.9
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	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	6	4
Boron	ppm	ASTM D5185m	269	99	57	39
Barium	ppm	ASTM D5185m		0	20	0
Molybdenum	ppm	ASTM D5185m	0	22	45	86
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	20	159	199	47
Calcium	ppm	ASTM D5185m	1521	2212	1786	2082
Phosphorus	ppm	ASTM D5185m	948	1025	931	992
Zinc	ppm	ASTM D5185m	893	1266	1111	1185
Sulfur	ppm	ASTM D5185m		4062	4023	3404
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.3	13.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.2	6.9	5.6
Visc @ 100°C	cSt	ASTM D445	11.0	11.9	12.4	13.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033012
Lab Number : 06160043
Unique Number : 10995466
Test Package : FLEET
Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Sean Felton

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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)