WEAR CONTAMINATION FLUID CONDITION

Limit/Abn | Current

UOM Method

NORMAL NORMAL NORMAL

History2

History1

Machine Id

F9165 Component

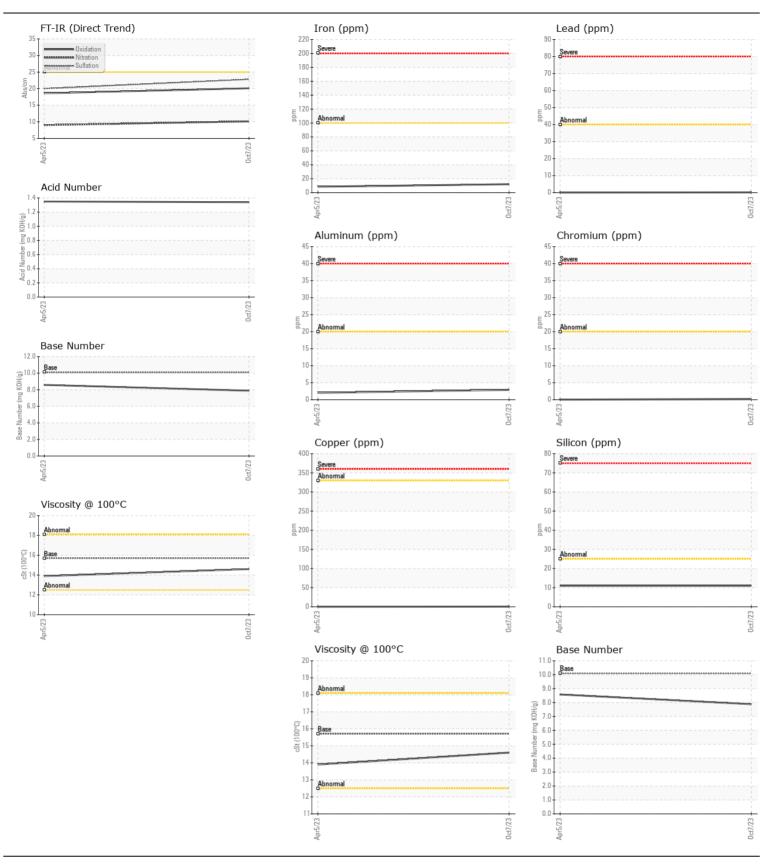
Diesel Engine

RECOMMENDATION

SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION	1651	OOW				THStOLYT	Tilstoryz
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0676261		
	Sample Date		Client Info		07 Oct 2023	05 Apr 2023	
	Machine Age	hrs	Client Info		12315	11652	
	Oil Age	hrs	Client Info		663	503	
	Filter Age	hrs	Client Info		663	503	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	nnm	ASTM D5185m	<100	12	8	
WEAN	Chromium	ppm	ASTM D5185m		<1	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	>4	0	0	
	Silver	ppm	ASTM D5185m	. 2	0	0	
	Aluminum	ppm				2	
		ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		<1	0	
	Tin	ppm	ASTM D5185m	>15	<1	0	
	Vanadium	ppm	ASTM D5185m	NICNIE	0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11	11	
	Potassium	ppm	ASTM D5185m	>20	9	4	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.0	
	Sulfation	Abs/.1mm	*ASTM D7415		22.8	20.0	
	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		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		130	193	
	Barium	ppm			0	0	
	Molybdenum	ppm	ASTM D5185m	1.2	8	0	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		14	12	
	Calcium	ppm	ASTM D5185m		2342	2294	
	Phosphorus	ppm	ASTM D5185m	1064	1019	957	
	Zinc	ppm	ASTM D5185m		1255	1188	
	Sulfur	ppm	ASTM D5185m	4996	4456	3872	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	18.6	
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.34	1.35	
	Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.88	8.58	
	Visc @ 100°C	0.	ASTM D445		14.6	13.9	

Test





Certificate L2367

Laboratory Sample No.

: WC0676261 Lab Number : 05985731 Unique Number : 10703026 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Oct 2023 **Tested** : 24 Oct 2023

Diagnosed

: 24 Oct 2023 - Don Baldridge

GAP REPAIR SHOP 994 GAP RD KINZERS, PA US 17535

Contact: EMANUEL ZOOK jchapman959@gmail.com T:

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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