OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION**

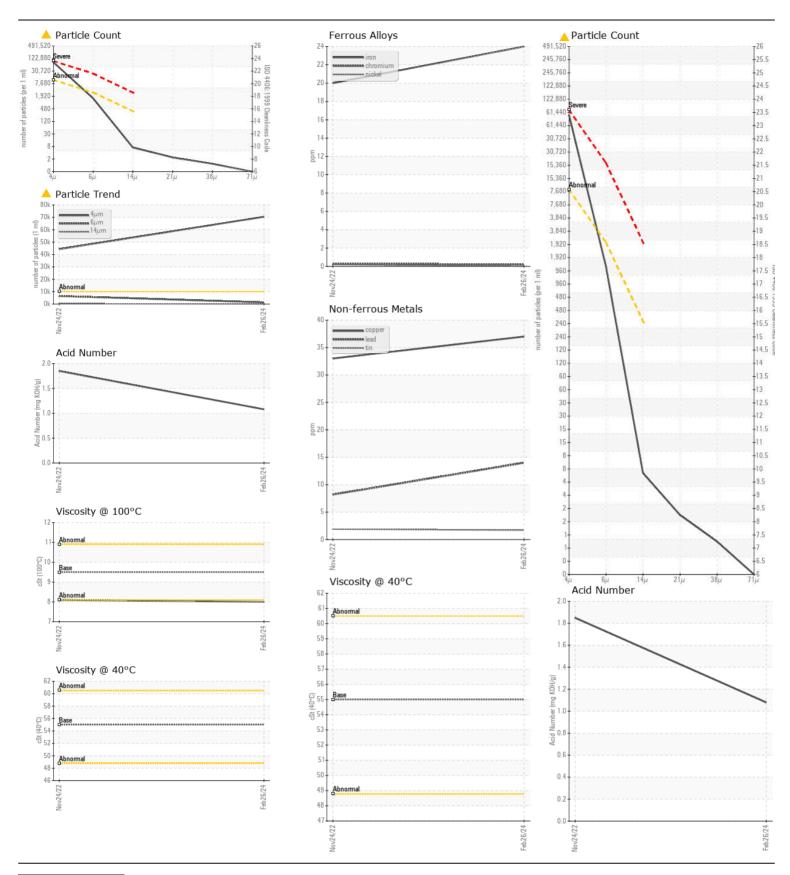
NORMAL **ABNORMAL NORMAL**

MASSEY FERGUSEN NM59318

Hydraulic System

TRC LITE RED (12 GAL)

TRC UTF RED (12 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06101109	TR05741402	
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		26 Feb 2024	24 Nov 2022	
	Machine Age	hrs	Client Info		1737	1335	
	Oil Age	hrs	Client Info		521	123	
	Filter Age	hrs	Client Info		521	123	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	24	20	
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	710	<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	2	<1	
	Lead	ppm	ASTM D5185m		14	8	
	Copper	ppm	ASTM D5185m		37	<u></u> 33	
	Tin	ppm	ASTM D5185m		2	2	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		Scalai	Visuai	INOINL	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	12	11	
	Potassium	ppm	ASTM D5185m	>20	0	<1	
There is a high amount of silt (particulates < 6 microns in size) present in the oil.	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>10000	70452	<u></u> 44252	
	Particles >6µm		ASTM D7647	>2500	1335	△ 6485	
	Particles >14µm		ASTM D7647	>320	6	△ 302	
	Particles >21µm		ASTM D7647	>80	2	<u></u> 55	
	Particles >38µm		ASTM D7647	>20	1	3	
	Particles >71µm		ASTM D7647	>4	0	0	
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	23/18/10	<u>\$\text{\Delta}\$ 23/20/15</u>	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	10	
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		70	80	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		1	0	
	Molybdenum	ppm	ASTM D5185m		<1	2	
	Manganese	ppm	ASTM D5185m		2	1	
	Magnesium	ppm	ASTM D5185m		24	21	
	Calcium	ppm	ASTM D5185m		3595	3663	
	Phosphorus	ppm	ASTM D5185m		1129	1060	
	Zinc	ppm		2000	1443	1363	
	Sulfur	ppm	ASTM D5185m		4528	4366	
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.08	1.85	
	Visc @ 40°C	cSt	ASTM D445		49.3		
	Visc @ 100°C	cSt	ASTM D445		8	8.1	
	Viscosity Index (VI)	Scale	ASTM D2270	157	132		





Laboratory Sample No. Unique Number : 10899339

: TR06101109 Lab Number : 06101109

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

Tested Diagnosed

: 26 Feb 2024 : 28 Feb 2024

: 28 Feb 2024 - Doug Bogart

VALLEY SPRAY P.O. BOX 466 MONROE, OR US 97456 Contact: JEFF WARREN

Test Package: MOB 2 (Additional Tests: KV100, PrtCount, VI) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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) T: F: