WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

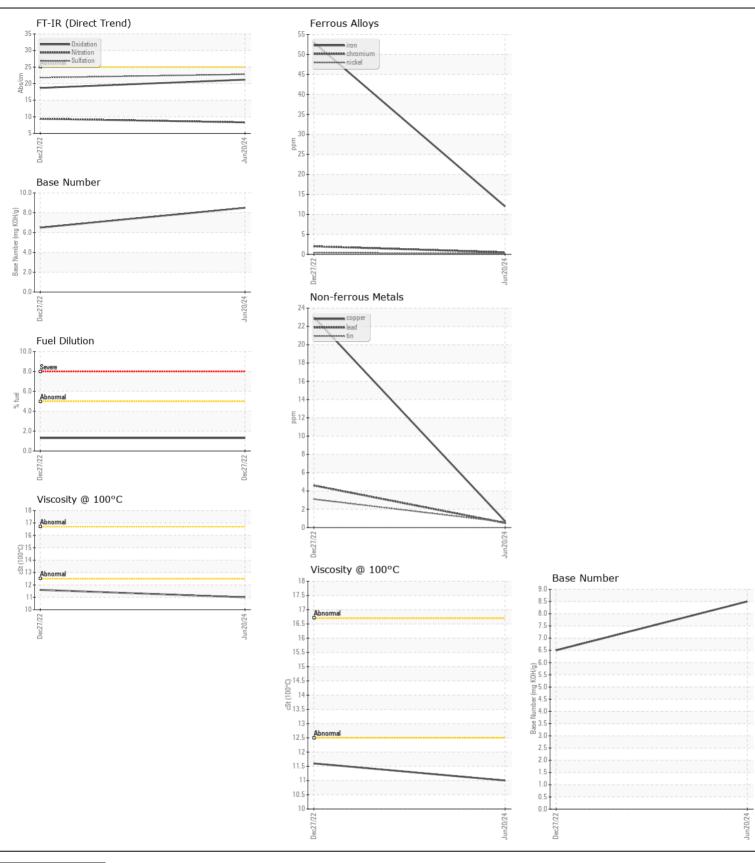
Machine Id

8317509

Component
Diesel Engine

S1300 10W30 (--- QTS)

31300 104930 (&13)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		IL0036857	IL05742142	
	Sample Date		Client Info		20 Jun 2024	27 Dec 2022	
	Machine Age	mls	Client Info		159389	0	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	12	53	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	2	
	Nickel	ppm	ASTM D5185m		<1	- <1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	\3	0	0	
	Aluminum	ppm	ASTM D5185m		3	42	
	Lead	ppm	ASTM D5185m		<1	5	
	Copper	ppm	ASTM D5185m		<1	23	
	Tin	ppm	ASTM D5185m		<1	3	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
			Visuai	IVOIVE			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	4 39	
	Potassium	ppm	ASTM D5185m	>20	6	132	
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	<1.0	1.3	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	21.8	
	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	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2	4	
FLUID CONDITION	Boron	ppm	ASTM D5185m		29	38	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		43	63	
	Manganese	ppm	ASTM D5105m		<1	4	
	Magnesium		ASTM D5105m		500	413	
	Calcium	ppm	ASTM D5185m		1628	1715	
	Phosphorus	ppm	ASTM D5185m		760	930	
	Zinc		ASTM D5185m		903	1179	
	Sulfur	ppm	ASTM D5165III		903 2767	2447	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	18.7	
	Base Number (BN)		ASTM D7414 ASTM D2896	>20	8.5	6.5	
	Visc @ 100°C	cSt	ASTM D2696 ASTM D445			11.6	
	VISC @ 100 C	USI	A311VI D443		11.0	0.11	







Certificate L2367

Laboratory Sample No.

Lab Number : 06239698

Unique Number : 11128532

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : IL0036857 Received

: 17 Jul 2024 **Tested** : 19 Jul 2024 Diagnosed

: 19 Jul 2024 - Sean Felton Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

IDEALEASE-NORCROSS 4571 NORTH BUFORD HWY NORCROSS, GA US 30071-2808 Contact: RICK MARKS

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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