

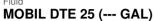
OIL ANALYSIS REPORT

Sample Rating Trend



UNIT 2 STARTER (S/N N15111

Hydraulic System



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

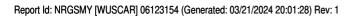
1903)	Sep.2018	Mar2019 Sep2020	180-2022 May2023 N	avd023	
MPLE INFORMATION	method	limit/base	current	history1	history2
ple Number	Client Info		USP0006131	USP245476	USP245477

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Sample Number		Client Info		USP0006131	USP245476	USP245477
Sample Date		Client Info		29 Feb 2024	02 Nov 2023	07 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	5	<1	0
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	4	6	6
Copper	ppm	ASTM D5185m	>20	6	6	6
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		3	4	0
Calcium	ppm	ASTM D5185m		133	116	144
Phosphorus	ppm	ASTM D5185m		512	445	503
Zinc	ppm	ASTM D5185m		653	631	706
Sulfur	ppm	ASTM D5185m		6302	5148	5625
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	12	<1
Sodium	ppm	ASTM D5185m		4	10	<1
Potassium	ppm	ASTM D5185m	>20	0	7	1
Water	%	ASTM D6304	>0.05	0.006	△ 0.228	0.011
ppm Water	ppm	ASTM D6304	>500	70	<u>^</u> 2280	119.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	12800		393
Particles >6µm		ASTM D7647	>1300	<u>^</u> 3404		98
Particles >14µm		ASTM D7647	>160	238		13
Particles >21µm		ASTM D7647	>40	<u></u> 67		5
Particles >38µm		ASTM D7647	>10	3		0
Particles >71µm		ASTM D7647	>3	1		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/15		16/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.03	0.93	0.99



OIL ANALYSIS REPORT





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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