

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id

PELLET MILL 2 (S/N NH398328) Component Gearbox

Fluid USPI FG GEAR 220 (17 GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

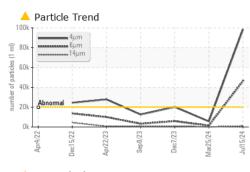
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

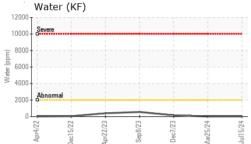
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP219790	USPM36906	USPM31893
Sample Date		Client Info		15 Jul 2024	25 Mar 2024	07 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	14	10	1
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	1	<1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m		2	2	0
Tin	ppm	ASTM D5185m	>25	0	<1	0
Vanadium		ASTM D5185m	~20	0	<1	0
Cadmium	ppm ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1	0	0
Calcium	ppm	ASTM D5185m		15	11	2
Phosphorus	ppm	ASTM D5185m		454	624	539
Zinc	ppm	ASTM D5185m		0	2	0
Sulfur	ppm	ASTM D5185m		328	_ 569	716
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	9	7	7
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Water	%	ASTM D6304	>0.2	0.002	0.001	0.015
ppm Water	ppm	ASTM D6304	>2000	18	6	153
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<mark>人</mark> 98531	5682	20149
Particles >6µm		ASTM D7647	>5000	<u> </u>	1361	5 940
Particles >14µm		ASTM D7647	>640	4 975	59	692
Particles >21µm		ASTM D7647	>160	73	14	152
Particles >38µm		ASTM D7647	>40	3	1	3
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	4/23/17	20/18/13	22/20/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.66	0.58	0.41

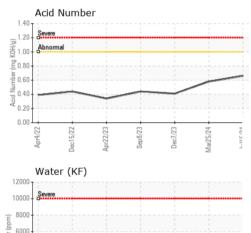
Contact/Location: Matt Sadler - CARSTECO Page 1 of 2



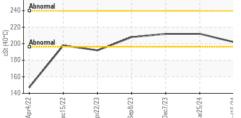
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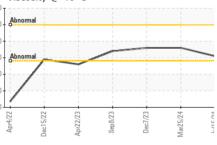






Water (4000 Abn 200 Mar25/24 Apr22/23 Dec7/23 ar15/77 Public 191 Viscosity @ 40°C 26

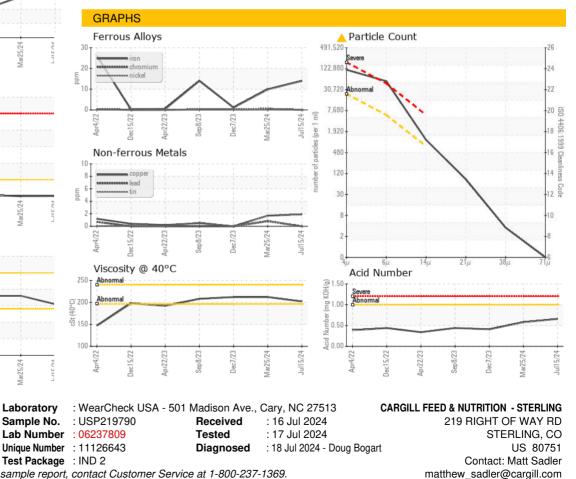






VISUAL method limit/base history1 history2 current NONE NONE White Metal *Visual NONE NONE scalar Yellow Metal *Visual NONE NONE NONE NONE scalar Precipitate NONE scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris *Visual LIGHT NONE NONE NONE scalar NONE NONE NONE Sand/Dirt scalar *Visual NONE NORML NORML Appearance scalar *Visual NORML NORML Odor *Visual NORML NORML NORML NORML scalar **Emulsified Water** scalar *Visual >0.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG FLUID PROPERTIES method limit/base curren history history2 202 212 212 Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method limit/base historv2 current historv1 Color

Bottom



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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Certificate 12367

Contact/Location: Matt Sadler - CARSTECO

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